Highway Number (ON) 5D: 470A 1

Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Mile Post (ON)11: 25.532 mi

dge Key: F-17-HN	Л	Inspection Date: 12	/14/2011	Sufficiency Rating: 86.1	Not Eligib
Rgn/Sectn 2E/2M:	68	Hist Signif 37:	5	UW Inspection Date 93B	
Trans Region 2T	02	Posting status 41:	Α	SI Date 93C:	
County Code 3:	035	Service on/un 42A/B:	6 1	Bridge Cost 94:	\$ 0
DOUGLAS		Main Mat/Desgn 43A/B:	6 2	Roadway Cost 95:	\$ 0
Place Code 4:	45955	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
ONE TREE	1.000	Main Spans Unit 45:	2	Year of Cost Estimate 97:	,
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	3	Horiz Clr 47:	59.3 ft	Border Bridge Number 99:	
evel of Service 5C:	1	Max Span 48:	85.0 ft	Defense Highway 100:	0
Directional Suffix 5E:	0	Str Length 49:	164.5 ft	Parallel Structure 101:	L
eature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
OSEMITE STREET		Width Curb to Curb 51	59.3 ft	Temporary Structure 103	
acility Carried 7:		Width Out to Out 52:	60.8 ft	Highway System 104:	1
SH 470 ML WBND		Deck Area:	9,988.9 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106	1991
		Min Undrclr Ref 54A:	H	Deck Type 107:	1
Prll Str No. 8P		Min Undrolr 54B:	17.0 ft	Wearing Surface 108A	6
-17-HL		Min Lat Clrnce Ref R 55A:	Н	Membrane 108B:	2
ocation 9:	328.051174090	Min Lat Undrolr R 55B;	10.5 ft	Deck Protection 108C:	1
3 MI W OF JCT I 25		Min Lat Undrclr L 56:	5.498687660	Truck ADT 109:	5 %
Max Clr 10:	99.99	Deck 58:	7	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	8	Pier Protection 111:	#
sinvRout 13A	000000470A	Sub 60:	8	NBIS Length 112:	Υ
rssubRout No13B:	00	Channel/Protection 61:	N	Scour Critical 113:	N
atitude 16:	39d 33' 31"	Culvert 62:	N	Scour Watch 113M:	0
ongitude 17:	104d 52' 53"	Oprtng Rtg Method 63:	1 LF Load Facto	Future ADT 114:	80,560
Range18A:	66 W	Operating Rating 64:	58.0	Year of Future ADT 115	2027
ownship18B:	66	Inv Rtng Method 65:	1	CDOT Str Type 120A:	CPGC
Section18C:	3	Inventory Rating 66:	28.0	CDOT Constr Type 120B:	31
Detour Length 19:	0.6 mi	Asph/Fill Thick 66T:	003 "in"	Inspection Indic 122A:	
oll Facility 20:	3	Str. Evaluation 67:	6	Inspection Trip 122AA	
Custodian 21:	1	Deck Geometry 68:	7	Scheduling Status 122B	
Owner 22:	1	Undrclr Vert/Hor 69:	6	Maintenance Patrol 123:	30
unctional Class 26:	12	Posting 70:	5	Expansion Dev/Type124	c
ear Built 27:	1984	Waterway Adequacy 7	N	Brdg Rail Type/Mod 125A/B	R
anes on 28A:	3	Approach Alignment 72:	8	Posting Trucks 129A/B/C	0 0 0
anes Under 28B:	8	Type of Work 75A:		Str Rating Date 130:	7/13/2001
ADT 29:	53,000	Work Done By 75B:		Special Equip 133:	-1
ear of ADT 30:	2007	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 99.99 0.0
Design Load 31:	6	Insp Team Indicator 90B:	RED TEAM	Vert Clr S/W 135A/B/C	X 99.99 0.0
Apr Rdwy Width 32:	76.0 ft	Inspector Name 90C:	RUTHERFORDI	Vertical Clr Date:	12/1/2005
Median 33:	1	Frequency 91:	24 months	Weight Limit Color: 139	0
Skew 34:	12.00 °		-1		U
Structure Flared 35:		FC Frequency 92A:		Str Billing Type:	ONSYS
	1 0 1 1	UW Frequency 92B:	-1	Userkey 1 - System:	ONOTO
Sfty Rail 36a/b/c/d:	1 0 1 1	SI Frequency 92C:	F 1	Userkey 7-Update Indic	1

Inspector Name: RUTHERFORDD

Structure ID: F-17-HM

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
26/4	Conc Deck/Coatd Bars	(SF)	10,002	0 %	C	100 %	10,002	0 %	0	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	1,141	100 %	1,140	0 %	1	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	46	98 %	45	2 %	1	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	132	98 %	130	1 %	. 1	1 %	1	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	64	100 %	64	0 %	0	0 %	0	0 %	0	0 %	0
301/4	Pourable Joint Seal	(LF)	132	100 %	132	0 %	0	0 %	0	0 %	0	0 %	0
302/4	Compressn Joint Seal	(LF)	132	77 %	102	15 %	20	8 %	10	0 %	0	0 %	0
321/4	R/Conc Approach Slab	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
325/4	Slope Prot/Berms	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	4	100 %	4	0 %	0	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	330	100 %	330	0 %	0	0 %	0	0 %	0	0 %	0
340/4	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
341/4	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
359/4	Soffit Smart Flag	(EA)	1	0 %	C	100 %	1	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	3 Inches of asphalt over membrane. Some small potholes and impending potholes in #1 lane. Light to mod. trans., longit., and random cracking throughout (some open to 1/2 inch). Raveling along concrete rail at left edge, and along longit. seams in asphalt.
109/4	P/S Conc Open Girder	Some very light efflorescence seeping from hairline crack in top flange of Girder 1G 10 feet from pier. Minor spall at end of Girder 1D. Minor spall in bottom flange of Girder 2A above right turn lane in NB direction.
210/4	R/Conc Pier Wall	Diagonal/vertical cracks (open to 1/16 inch) near center of wall on both sides. Some enlarged shrinkage cracks.
215/4	R/Conc Abutment	Spalling with exposed rebar, and with light vertical cracks, around utility blockout in Bay A at Abutment 3. (See 2005 photo) Hairline diagonal cracks at haunches of widened sections. Exposed rebar at Girder 2D at Abutment 3. Hairline vertical cracks in widened sections at Abutment 1. Girders are encased, and small pop-outs around Girders 2A and 2F.
234/4	R/Conc Cap	Looks good.
301/4	Pourable Joint Seal	Between abutments and approach slabs. Overlaid with asphalt, and cracking along joint.
302/4	Compressn Joint Seal	Evazote foam compression seals above sleeper slabs. Partially tar sealed and asphalt is breaking up at #1 approach. (See 2005, 2011 PHOTOS) Seal at #3 approach is exposed in #2 & #3 lanes, and it is bulging out of joint. (See 2009 Photo)
321/4	R/Conc Approach Slab	Overlaid with asphalt.

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Elem/Env	Description	Element Notes
325/4	Slope Prot/Berms	Light horizontal cracks in both slope paves. Pave @ A1 pulled away 0.5 to 1.25 inches. Pave @ A3 pulled away 1.25 to 2 inches. Vertical retaining walls constructed at toe of both slopes. Weeds and grass are growing from some joints.
326/4	Bridge Wingwalls	Diagonal and horizontal cracking in the transverse portion of the wing extensions. Three square foot delam./spall with cracking at Abutment 3 right. (See 2005 Photo) Beginning to spall with delam. and rust at end of #1 Lt. wing.
331/4	Conc Bridge Railing	Concrete Jersey barriers with hairline vertical cracks throughout. Finish is peeling at base of interior faces. Light scale at base of left rail.
340/4	Superstr Cnc Coating	Looks good.
341/4	Substr Conc Coating	Shrinkage cracking in surface at P2.
359/4	Soffit Smart Flag	Hairline trans. cracks with efflorescence in original bays of both spans.

Maintenance Activity Summary

Br Dk Rpr

Seal cracks in asphalt surface.

MMS Act 364.01	tivity Description Replace	Recommended Status Ta	arget Year 2013	Est Cost 5000
	ompression joint seals.			
riopan o	impression joint seals.			
353.04	Br Dk Rpr	10/27/2009 -1 2	013	3000
.55.5 U4	וסו עג מטו	110/27/2009 -1 -2	.013	5000

12/1/2005

-1

2013

750

353.08

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Maintenance Activity Summary

MMS Activity	Description Rec	ommended S	tatus	Target Year	Est Cost
358.06 Subst	r 12	2/1/2005	-1_	2013	2500

Remove and replace loose concrete at the transverse portion of the #3 right wingwall.

Bridge Notes

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 Tue 2/7/2012 11:01:21

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Inspection Notes

Time: 12:15	Temperature: 45 Degrees	Weather: Clear Team Leader: TAT
Scope:		
	ement: Underwater:	Fracture Critical: Other: Type: Regular NBI
spector:	RUTHERFORDD	Inspection Team:
spection Date:	12/14/2011	
•		Inspector
		·
		Inspector